ij

Gaps

Indels

49;

Mismatches

٠,

Matches 1328; ð 셤 à g ð g ò d ò рþ ò 엄 õ g ò 엄 δ g ò g δ g õ g δ 엄 $\overset{\circ}{\delta}$ g à ద ð 엄 ð 3721 ACACCCACTGCCACCAATTTAGAGACCAACCCAGACAAAACTGGGCACAAAAACACAC 3780 Kinases) protein. The protein is tyrosine phosphorylated in haematopoietc mammalian cells after stimulation with a ligand for a receptor tyrosine kinase found in oncogenic cells. The p62-dok protein binds p120 ras GTPase-activating protein (GAP). The p62-dok protein is involved in a signal transduction pathway initiated by receptor tyrosine kinase, and is rapidly tyrosine phosphorylated. The p62-dok protein is also present in normal cells, but is not constitutevily phosphorylated by normal receptor tyrosine kinase. Antibodies against p62-dok and aberrantly phosphorylated p62-dok, and probes derived from the p62-dok DNA sequence can be used in the diagnosis and treatment of conditions in which an oncogenic tyrosine kinase is active such as chronic myelogenous p62-dok; protein downstream of tyrosine kinases; tyrosine boshosphorylation; receptor tyrosine kinase; oncogenic cell; p120 ras GTPase-activating protein; GAP; signal transduction pathway; antibody; diagnosis; treatment; chronic myelogenous leuksemia; CML; The present sequence encodes p62-dok (protein downstream of tyrosine Newly isolated human p62-dok protein - used to develop products for the diagnosis and treatment of conditions in which oncogenic tyrosine kinase is active, e.g. chronic myelogenous leukaemia DNA encoding p62 protein downstream of tyrosine kinases (p62-dok) Sequence 1446 BP; 285 A; 457 C; 440 G; 264 T; 0 other; Strife AO; Clarkson BD, Kobayashi R, eukaemia (CML) and other human cancers (COLD-) COLD SPRING HARBOR LAB. (SLOK) SLOAN KETTERING INST CANCER RES Location/Qualifiers 1..1446 /*tag= a /product= p62-dok Claim 1; Fig 2A-C; 86pp; English AAV38415 standard; DNA; 1446 BP 3781 AAAGACACGAAAACCCATACAA 96US-0030418. 97WO-US19788 97US-0787091 (first entry) WPI; 1998-286945/25. P-PSDB; AAW62507. human cancer; ss. 8 WO9820129-A1 30-OCT-1997; 01-NOV-1996; 16-SEP-1998 22-JAN-1997 14-MAY-1998 Carpino NA, Wisniewski Mammalia AAV3841 ò d

Score 1132.6; DB 19; Length 1446; Pred. No. 1.3e-200; 29. 7%: 86. 6%:

2145 2445 2505 2565 2685 1905 1965 2025 2085 2325 2625 1845 2205 2385 2745 2865 2265 2805 418 118 238 358 502 622 682 742 802 922 923 GCCCTTCCCAGGACTCCCTATACTCAGACCCCTTGGACAGCACGTCTGCTCCAGGAGGAGGAG 982 299 TGGCGGCCGACGCCGCTCCAGTGCAGCCTGGGTGCAGACGCTGTGCCGAAACGCCTTTC TGCTGGAGAACTCCTTGTACAGCCCTACCTGGGAAGGTAGACGCCTCAGAAGCCCGGGCA 2266 CCCATGGGGAAGTAAGAAGTAGGAAGGCCCTGAGATCTGGCTTCCGACTGTCTAATCGTG GTGGCCTGCATGGCTCCTACGTGCTGAGGTGGAGGCTGAAAGGCTGACTCTCCTGACCG 1786 AGAGGIGGAGGAAGACCIGGGCCGIGCTCIACCCGGCCAGICCCCACGGGGIIAGCGCGGG 1846 TCGAGTTCTTTGACCATAAGGGGTCGAGCTCTGGGGGTGGCCGAGGGAGCTCGCGCCGCC 119 rcdastrictricasccaraassastricaastricassastri TGGACTGCAAAGTGATCCGTCTGGCTGAGTGTGTGAGTGTGGCCCCCCGTCACCGTGGAGA 179 Idgacidcaaagrgarccgrcrggcrgagrgrgrgrgrgrgrgggggccccgrcaccgrgaga 239 CCCCCCTGAGCCCGGCGCACTGCCTTCCGCCTGGACACTGCTCAGCGCTCGCACATGC 2086 CGAAAGGCAGCTGGACTCTGGCGCCTACCGATAACCCACCTAAGCTTTCTGCCCTGGAGA -----AGGATCCCAATTCTGGGTAACGGTGCAGAGGACTGAGGCCGCCGAGCG 2386 GTGGCCTGCATGGCTCCTACGTGCTGAGGGTGGAGGCTGAAAGGCTGACTCTCCTGACCG 2446 IGGGGCCCAGAGICAGAIACTGGAGCCACTCCTGICCTGGCCCTACACTCTGITGCGIC CTGGAACCTTCACCTTCCAGACGGCACAGGAAATGACATCTTCCAGGCAGTTGAGACTG 683 CTGGAACCTTCACCTTCCAGACGGCACAGGAAATGACATCTTCCAGGCAGTTGAGACTG CCATCCACCGGCAGAAGGCCCAGGGAAAGGCCGGACAGGGGCACGATGTTCTCAGAGCTG 803 ACTCCCATGAAGGGGAGGGGAGAGGAGGAGTTGCCTTCCCCACCTGGCCCCCAAGAGC 59 AGAGGTGGAGGAAGACCTGGGGCCGTCTTACCCGGCCAGTCCCCACGGCGTAGCGCGGC CCCCCCTGAGCCCGGCGCCACTGCCTTCCGCCTGGACACTGCTCAGCGCTCGGACACCTGC 2026 TGGCGGCCGACGCCGTCCAGTGCAGCCTGGGTGCAGACGCTGTGCCGAAACGCCTTTC 2326 TATGCCTTCCAGGATCCCAATTCTGGGTAACGGTGCAGAGGACTGAGGCCGCCGAGCGCT 743 CCATCCACCGGCAGAAGGCCCAAGGGCAAAAGGCCGGACAGGGGCACGATGTTCTCAGAGCTG TCCTCGACAGTCCCCCAGCCCTGATGCTGAGCCCTTAGACTCCCTGCGCATTGCTCCAT 863 recretate de la recretate ACTCCCATGAAGGGAAGTGGCAGAGGGGAAGTTGCCTTCCCCACCTGGCCCCCAAAGAGC 419 recreasasacrecrieracaecerraceas 1906 1966 2146 453 503 2626 2686 2746 2806 2566 453 453 요

Query Match Best Local Similarity

```
3045
                                                                                            3105
                                                                                                                         3165
             1102
                                                                               1162
                                                                                                          1222
                                                                                                                                       1282
                                                                                                                                                  CAGCCTTCCCTGAACCTGGTACTGCAACTGGCAGTGGCATCAAAAGCCAGAACTCAGGCC 3225
                                                                                                                                                                               TGTACAGCCAGAGAATCCCAGGAAGGAAAAGGAGAAGGAGGAGGAAGAAACAGGTG 3285
                                                                                                                                                                                             richacadciakorccagaadagccocccakorocagacrosakororocagacacarandad
                                         GGTGCCAAGCTCGGGTGAAGGAGGAGGCTATGAGCTCCCCTACAACCTGCCACTGATG
                                                                                                                                                                1283 ckácciriccerdaaceráciácaacidácagrácardaaagecaacaacicagece
     AGGGAGTACAACGGAAAAACCTCTTATTGGGACTTGTATGAGCATGCGCAGCAGCAGT
                                                                         TGGCCCCAGTCCCTCCCCAAGGATGCATTAATGATCTGCCTCGGGAGCCCCAAGGATGCATGGT
                                                                                           GGTGCCAAGCTCGGGTGAAGGAGGAGGCTATGAGCTCCCCTACAACCCTGCCACTGATG
                                                                                                                       ACTACGCTGTGCCACCCCCTCGGAGCACAAAGCCCCTCCTTGCTCCCAAAGCCCCAAGGCC
                                 TGCTGAAGGCCAAGCTGACAGACCCCAAAGAGGATCCCATCTATGATGAACCTGAGGGCC
                                                              TGGCCCCAGGCCCTTTATGATCTGCCTCGGGAGCCCAAGGATGCATGGT
                                                                                                                                      ACTACGCTGTGCCACCCCCTCGGAGCACAAAGCCCCTCCTTGCTCCCAAGCCCCAGGGCC
                                                                                                                                                                                                                                                                                                                         cancer;
                                                                                                                                                                                                                                                                                                       16/haematopoietic antigen genomic sequence SEQ ID NO:29263
                                                                                                                                                                                                                                                                                                                      haematopoietic; immune/haematopoietic antigen
                                                                                                                                                                                                            3286 GAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG
                                                                                                                                                                                                                         1403 TAGGGACTGACAAGACTGGGGTCAAGTCAGAGG 1435
                                                                                                                                                                                                                                                            AAK75071 standard; DNA; 30904 BP
                                                                                                                                                                                                                                                                                                                                                                                                   2000US-0179065.
2000US-0180628.
2000US-0184664.
2000US-0186350.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2000US-0217496.
2000US-0218290.
2000US-0220963.
2000US-0220964.
                                                                                                                                                                                                                                                                                                                                                                                     17-JAN-2001; 2001WO-US01354
                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                        2000US-019007
                                                                                                                                                                                                                                                                                                                      Human; immune; h
cytostatic; gene
                                                                                                                                                                                                                                                                                                                                                         WO200157182-A2
                                                                                                                                                                                                                                                                                                                                                                                                          04-FEB-2000;
24-FEB-2000;
02-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    28-JUN-2000;
30-JUN-2000;
07-JUL-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                     9-MAY-2000;
                                                                                                                                                                                                                                                                                                                                            Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                        -MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                    31-JAN-2000;
                                                                                                                                                                                                                                                                                         07-NOV-8001
                                                                                                                                                                                                                                                                                                                                                                                                                               6-MAR-2000
                                                                                                                                                                                                                                                                                                                                                                        09-AUG-2001
                                                                                                                                                                                                                                                                                                        Human immur
                   983
                                 2926
                                                               2986
                                                                            1103
                                                                                          3046
                                                                                                                                    1223
                                                                                                                                                                                              1343
                                               1043
                                                                                                                      3106
                                                                                                         1163
                                                                                                                                                   3166
                                                                                                                                                                                3226
                                                                                                                                                                                                                                                                           AAK 5071;
                                                                                                                                                                                                                                                    q
                                                                                                                                                                 d
                                                                          g
                                                                                          ð
                                                                                                       g
                                                                                                                                                   ö
                                                                                                                                                                                             g
                                                              ò
                                                                                                                      \delta
                                                                                                                                                                               8
                                                                                                                                                                                                            à
                                                                                                                                                                                                                         g
                                \delta
```

00US-0234997. 00US-0234998. 00US-0235484. 00US-0235834. 2000US-0237037 2000US-0236802